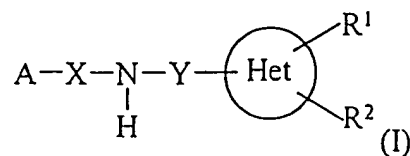


**Listing of Claims:**

**Claim 1** (currently amended) ~~Compounds~~ A compound of ~~general~~ the formula (I)



in racemic, enantiomeric; or diastereoisomeric form ~~or~~ and all combinations of these forms, ~~in which~~ wherein

$\text{R}^1$  ~~represents~~ is selected from the group consisting of hydrogen atom, ~~an~~  $-\text{OR}^3$ ,  $-\text{SR}^3$ , oxo ~~or~~ and cyclic acetal radical,

~~in which~~

$\text{R}^3$  ~~represents a~~ is selected from the group consisting of hydrogen atom, ~~an~~ alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl ~~or~~ and aralkylcarbonyl radical,

~~in which~~ the alkyl, aryl or heterocycloalkyl radicals are unsubstituted or optionally substituted by at least one ~~or more identical or different~~

~~substituents chosen from:~~ member selected from the group consisting of  
alkyl, -OH, alkoxy, nitro, cyano, halogen ~~or~~ and -NR<sup>4</sup>R<sup>5</sup>;

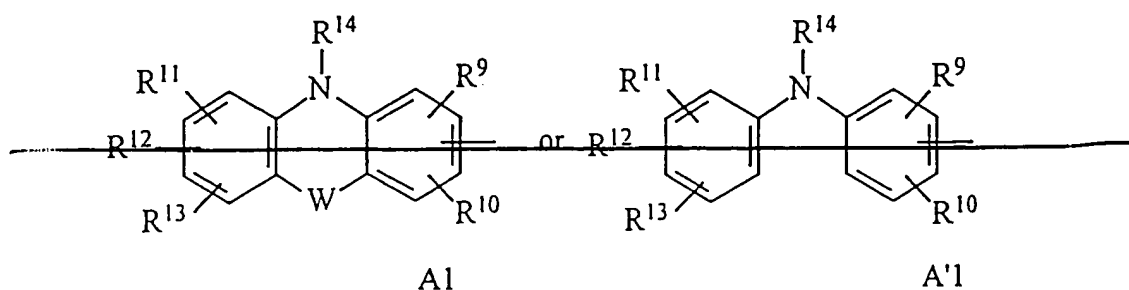
R<sup>4</sup> and R<sup>5</sup> ~~represent~~ are independently, a selected from the group consisting of  
hydrogen atom or an alkyl radical, or R<sup>4</sup> and R<sup>5</sup> together with the nitrogen  
atom to which they are attached form an optionally substituted  
heterocycle,

R<sup>2</sup> ~~represents a~~ is selected from the group consisting of hydrogen atom, an alkyl, aryl  
~~or~~ and aralkyl radical, the aryl group being optionally unsubstituted or substituted  
by at least one or more identical or different radicals chosen from: member  
selected from the group consisting of -OR<sup>6</sup>, -NR<sup>7</sup>R<sup>8</sup>, halogen, cyano, nitro ~~or~~ and  
alkyl,

~~in which~~ R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> ~~represent,~~ are independently, selected from the group  
consisting of a hydrogen atom, an alkyl, aryl, aralkyl, alkylcarbonyl, arylcarbonyl  
~~or~~ and aralkylcarbonyl radical,

A ~~represents~~ is a)

either an A1 or A'1 radical



in which  $R^9, R^{10}, R^{11}, R^{12}, R^{13}$  represent, independently, a hydrogen atom, a halogen, the OH group, an alkyl, alkoxy, cyano, nitro or  $NR^{15}R^{16}$  radical,

$R^{15}$  and  $R^{16}$  represent, independently, a hydrogen atom, an alkyl radical or a  $COR^{17}$  group, or  $R^{15}$  and  $R^{16}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

$R^{17}$  represents a hydrogen atom, an alkyl, alkoxy or  $NR^{18}R^{19}$  radical,

$R^{18}$  and  $R^{19}$  represent, independently, a hydrogen atom or an alkyl radical, or  $R^{18}$  and  $R^{19}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

$R^{14}$  represents a hydrogen atom, an alkyl radical or a  $COR^{20}$  group,

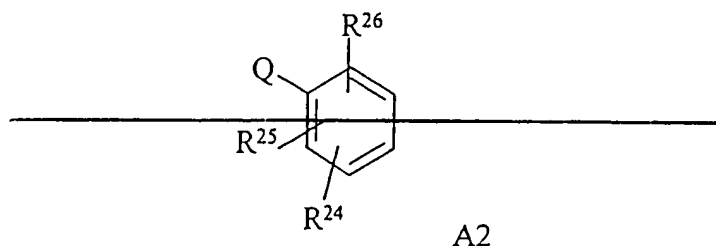
$R^{20}$  represents a hydrogen atom, an alkyl, alkoxy, aryl, aralkyl, heterocycloalkyl or  $NR^{21}R^{22}$  radical,

in which the alkyl, aryl or heterocycloalkyl radicals are optionally substituted by one or more identical or different substituents chosen from alkyl, OH, alkoxy, nitro, cyano, halogen or  $\text{NR}^4\text{R}^5$ ;

$\text{R}^{21}$  and  $\text{R}^{22}$  represent, independently, a hydrogen atom or an alkyl radical, or  $\text{R}^{21}$  and  $\text{R}^{22}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

W represents a bond, O or S or also an  $\text{NR}^{23}$  radical, in which  $\text{R}^{23}$  represents a hydrogen atom or an alkyl radical;

or an A2 radical



in which

$\text{R}^{24}$ ,  $\text{R}^{25}$  and  $\text{R}^{26}$  represent, independently, a hydrogen, a halogen, the OH or  $\text{SR}^{27}$  group, an alkyl, alkenyl, alkoxy radical or an  $\text{NR}^{28}\text{R}^{29}$  radical;

$\text{R}^{27}$  represents a hydrogen atom or an alkyl radical;

~~R<sup>28</sup> and R<sup>29</sup> represent, independently, a hydrogen atom, an alkyl radical or a COR<sup>30</sup> group, or R<sup>28</sup> and R<sup>29</sup> form together with the nitrogen atom to which they are attached an optionally substituted heterocycle,~~

~~R<sup>30</sup> represents a hydrogen atom, an alkyl, alkoxy or NR<sup>31</sup>R<sup>32</sup> radical,~~

~~R<sup>31</sup> and R<sup>32</sup> represent, independently, a hydrogen atom or an alkyl radical, or R<sup>31</sup> and R<sup>32</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,~~

~~Q represents OR<sup>33</sup>, SR<sup>33</sup>, NR<sup>34</sup>R<sup>35</sup> or an aryl radical substituted by one or more identical or different substituents chosen from: halogen, the OH group, an alkyl, alkoxy, cyano, nitro or NR<sup>15</sup>R<sup>16</sup> radical,~~

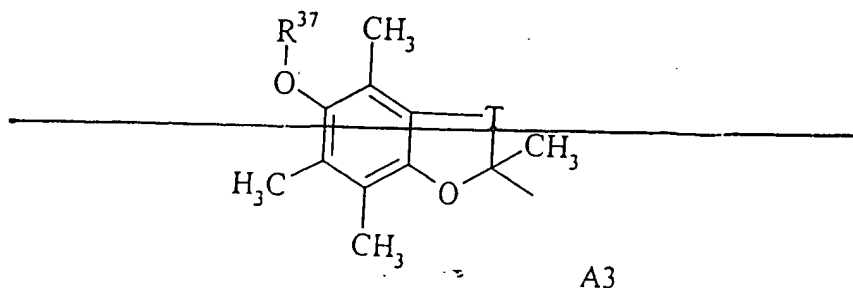
~~R<sup>33</sup> represents a hydrogen atom, an alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl or aralkylcarbonyl radical,~~

~~in which the alkyl, aryl or heterocycloalkyl radicals are optionally substituted by one or more identical or different substituents chosen from: alkyl, OH, alkoxy, nitro, cyano, halogen or NR<sup>4</sup>R<sup>5</sup>;~~

~~R<sup>34</sup> and R<sup>35</sup> represent, independently, a hydrogen atom, an alkyl radical or a CO-R<sup>36</sup> radical, or together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,~~

~~R<sup>36</sup> representing an alkyl radical;~~

~~or an A3 radical~~

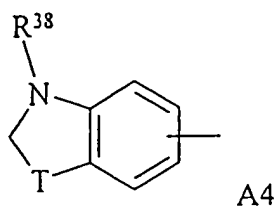


~~in which R<sup>37</sup> represents a hydrogen atom, an alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl or aralkylcarbonyl radical,~~

~~in which the alkyl, aryl or heterocycloalkyl radicals are optionally substituted by one or more identical or different substituents chosen from: alkyl, OH, alkoxy, nitro, cyano, halogen or -NR<sup>4</sup>R<sup>5</sup>;~~

~~T represents a (CH<sub>2</sub>)<sub>m</sub> radical with m = 1 or 2;~~

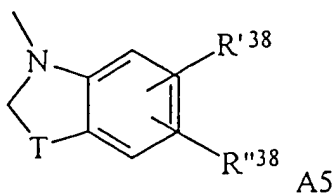
or an A[4]-radical is



in which  $R^{38}$  represents a is selected from the group consisting of hydrogen atom, an alkyl,  $-(CH_2)_q-NR^{39}R^{40}$  ~~or~~ and aralkyl radical, the aryl group being optionally unsubstituted or substituted by at least one or more identical or different substituents ~~chosen from:~~ member selected from the group consisting of -OH, alkyl, halogen, nitro, alkoxy ~~or~~ and  $-NR^{39}R^{40}$ ,

$q$  being is an integer ~~comprised~~ between 2 and 6;

or an A5 radical;



~~in which~~ wherein  $R^{38}$  and  $R''^{38}$  ~~represent~~ are independently a selected from the group consisting of hydrogen atom, nitro,  $-NR^{39}R^{40}$ , an alkyl ~~or~~ and arylalkyl radical, the aryl group being optionally unsubstituted or substituted by at least one

~~or more identical or different substituents chosen from:~~ member selected from the group consisting of -OH, the alkyl, halogen, nitro, alkoxy or and -NR<sup>39</sup>R<sup>40</sup> radicals,

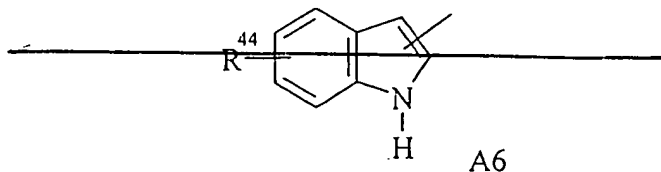
R<sup>39</sup>, R<sup>40</sup>, R<sup>39</sup> and R<sup>40</sup> ~~represent,~~ are independently, a selected from the group consisting of hydrogen atom, an alkyl radical or a and -COR<sup>41</sup> group, or R<sup>39</sup> and R<sup>40</sup> or R<sup>39</sup> and R<sup>40</sup> together with the nitrogen atom form an optionally substituted heterocycle,

R<sup>41</sup> ~~represents a~~ is selected from the group consisting of hydrogen atom, an alkyl, alkoxy or and -NR<sup>42</sup>R<sup>43</sup> radical,

R<sup>42</sup> and R<sup>43</sup> ~~represent,~~ are independently, a selected from the group consisting of hydrogen atom or an alkyl radical, or R<sup>42</sup> and R<sup>43</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

T ~~representing a~~ is -(CH<sub>2</sub>)<sub>m</sub>- radical with m = 1 or 2,

~~or finally an A6 radical~~





in which  $R^{44}$  represents a hydrogen atom, the OH group or an alkyl or alkoxy radical;

X represents is selected from the group consisting of  $-(CH_2)_n-$ ,  $-(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-$ ,  $(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-D-CO-$ ,  $-CO-N(R^{45})-D-CO-$ ,  $-CO-D-CO-$ ,  $-CH=CH-(CH_2)_n-$ ,  $CO-$ ,  $-N(R^{45})-(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-C(R^{46}R^{47})-CO-$ ,  $-O-(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-$ ,  $NH-C(R^{46}R^{47})-CO-$ ,  $-CO-N(R^{45})-C(R^{46}R^{47})-CO-$ ,  $-S-(CH_2)_n-CO-$  or and  $-Z-CO-$ ;

D represents a is phenylene radical optionally unsubstituted or substituted by at least one or more identical or different radicals chosen from member selected from the group consisting of alkyl, alkoxy,  $-OH$ , nitro, halogen, cyano, or and carboxyl optionally esterified by an alkyl radical ;

Z represents is a heterocycle,

$R^{45}$  represents a is hydrogen atom or an alkyl radical,

$R^{46}$  and  $R^{47}$  represent, are independently, a selected from the group consisting of hydrogen atom, an alkyl, aryl or and aralkyl radical, the alkyl and aryl groups of which are optionally unsubstituted or substituted by at least one or more identical or different substituents chosen from: the member selected from the group consisting of  $-OH$ ,  $-SH$ , halogen, nitro, alkyl, alkoxy, alkylthio, aralkoxy, aryl-alkylthio,  $-NR^{48}R^{49}$  and carboxyl group optionally esterified by an alkyl radical;

$R^{48}$  and  $R^{49}$  ~~represent, are~~ independently, a selected from the group consisting of hydrogen atom, ~~an alkyl radical or a~~ and  $-COR^{50}$  group, or  $R^{48}$  and  $R^{49}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

$R^{50}$  ~~represents a~~ is selected from the group consisting of hydrogen atom, ~~an alkyl, alkoxy~~ or and  $-NR^{51}R^{52}$  radical,

$R^{51}$  and  $R^{52}$  ~~represent, are~~ independently, a hydrogen atom or an alkyl radical, or  $R^{51}$  and  $R^{52}$  together with the nitrogen atom to which they are attached, form an optionally substituted heterocycle;

$n$  ~~being~~ is an integer ~~comprised~~ between 0 and 6;

$Y$  ~~represents is~~ is  $-(CH_2)_p-$ ,  $-C(R^{53}R^{54})-(CH_2)_p$ , and  $-C(R^{53}R^{54})-CO-$ ;

$R^{53}$  and  $R^{54}$  ~~represent, are~~ independently, a selected from the group consisting of hydrogen atom, ~~an alkyl radical, an~~ and aralkyl radical, the aryl group of which is ~~optionally unsubstituted or substituted by at least one or more identical or different substituents chosen from: the~~ member selected from the group consisting of  $-OH$ , halogen, nitro, alkyl, alkoxy, and  $-NR^{55}R^{56}$  group,

~~R<sup>55</sup> and R<sup>56</sup> represent, are independently, a selected from the group consisting of~~  
hydrogen atom, ~~an alkyl radical or a~~ and -COR<sup>57</sup> ~~group~~, or R<sup>55</sup> and R<sup>56</sup> together with the  
nitrogen atom to which they are attached, form an optionally substituted heterocycle,

~~R<sup>57</sup> represents a~~ is hydrogen atom, an alkyl, alkoxy ~~or and~~ -NR<sup>56</sup>R<sup>59</sup> radical,

~~R<sup>58</sup> and R<sup>59</sup> represent, are independently, a selected from the group consisting of~~  
hydrogen atom ~~or an alkyl radical~~, or R<sup>58</sup> and R<sup>59</sup> together with the nitrogen atom to  
which they are attached form an optionally substituted heterocycle;

~~p being~~ is an integer ~~comprised~~ between 0 and 6;

~~Het represents is a heterocycle, and a pharmaceutically acceptable as well as the addition~~  
salts salt ~~with mineral and organic acids or with mineral and organic bases of said~~  
compounds of general formula (I) thereof,

~~with the exception of the compounds of formula (I) in which when Het represents~~  
tetrahydrofuran or tetrahydropyran, ~~R<sup>1</sup> represents the OR<sup>3</sup> radical with R<sup>3</sup> representing a~~  
hydrogen atom, ~~an alkyl, arylalkyl, heterocycloalkylcarbonyl radical, the~~  
heterocycloalkyl radical of which is connected by a carbon atom, ~~alkylcarbonyl,~~  
~~arylcarbonyl or aralkylcarbonyl radical, R<sup>2</sup> represents a hydrogen and Y represents the~~  
~~-(CH<sub>2</sub>)<sub>p</sub>- radical with p = 0, then X does not represent~~ X is -CO-N(R<sup>45</sup>)-C(R<sup>46</sup>R<sup>47</sup>)-CO-  
with R<sup>45</sup> = R<sup>46</sup> = H.

**Claim 2** (currently amended) ~~Compounds according to~~ A compound of claim 1,  
~~characterized in that wherein~~ Het ~~represents is~~ a monocyclic radical ~~containing of~~ 1 to 2  
heteroatoms ~~chosen from~~ selected from the group consisting of O and N.

**Claim 3** (currently amended) ~~Compounds according to one of claims 1 to 2,~~  
~~characterized in that~~ A compound of claim 1 wherein Het ~~represents is~~ selected from the  
group consisting of tetrahydrofuran, dioxolane, pyrrolidine, and 1,3-oxazolidine, and R<sup>1</sup>  
~~represents the~~ is selected from the group consisting of hydrogen atom, the -OR<sup>3</sup> ~~or~~ and  
oxo radical.

**Claim 4** (currently amended) ~~Compounds according to one of the previous claims~~  
~~characterized in that~~ A compound of claim 1 wherein X ~~represents is~~ selected from the  
group consisting of -(CH<sub>2</sub>)<sub>n</sub>-, -(CH<sub>2</sub>)<sub>n</sub>-CO-, -O-(CH<sub>2</sub>)<sub>n</sub>-CO-, -CO-N(R<sup>45</sup>)-D-CO-, -N(R<sup>45</sup>)-  
CO-(CH<sub>2</sub>)<sub>n</sub>-CO-, -N(R<sup>45</sup>)-CO-C(R<sup>46</sup>R<sup>47</sup>)-CO-, -N(R<sup>45</sup>)-CO-NH-C(R<sup>46</sup>R<sup>47</sup>)-CO-, -N(R<sup>45</sup>)-  
(CH<sub>2</sub>)<sub>n</sub>-CO-, -CO-N(R<sup>45</sup>)-C(R<sup>46</sup>R<sup>47</sup>)-CO ~~or~~ and -Z-CO-.

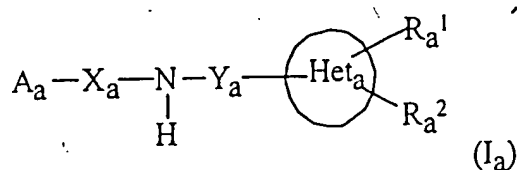
**Claim 5** (currently amended) ~~Compounds according to~~ A compound of claim 4,  
~~characterized in that wherein~~ R<sup>45</sup> and R<sup>47</sup> ~~represent the~~ are hydrogen atom, R<sup>46</sup> ~~represents~~  
~~the~~ is selected from the group consisting of hydrogen atom, an alkyl or phenyl radical, D  
~~represents the~~ phenylene radical and Z ~~represents the~~ is thiazole radical.

**Claim 6** (currently amended) ~~Compounds according to one of the previous claims,~~  
characterized in that A compound of claim 1 wherein R<sup>2</sup> represents a hydrogen atom or  
an aralkyl radical, and preferably benzyl.

**Claim 7-10** (cancelled)

**Claim 11** (currently amended) ~~Pharmaceutical compositions~~ A pharmaceutical  
composition for inhibition of calpains and/or reactive oxygen species comprising, as  
active ingredient, at least one medicament as defined in claim 10 a calpain inhibiting or  
reactive oxygen species amount of a compound of claim 1 and a pharmaceutical carrier

**Claim 12** (currently amended) ~~Use of compound of formula (I<sub>a</sub>) as defined above,~~ A  
method of inhibiting calpain and/or reactive oxygen species in warm-blooded animals  
comprising administering to warm-blooded animals in need thereof a calpain inhibiting  
amount and/or reactive oxygen species inhibiting amount of a compound of the formula



in racemic, enantiomeric, diastereoisomeric form or all combinations of these forms, in  
which

~~wherein  $R_a^1$  represents a~~ is selected from the group consisting of hydrogen atom, an  $-OR^3$ ,  $-SR^3$ , oxo or and cyclic acetal radical,

~~in which  $R^3$  represents a~~ is selected from the group consisting of hydrogen atom, an alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl or and aralkylcarbonyl radical,

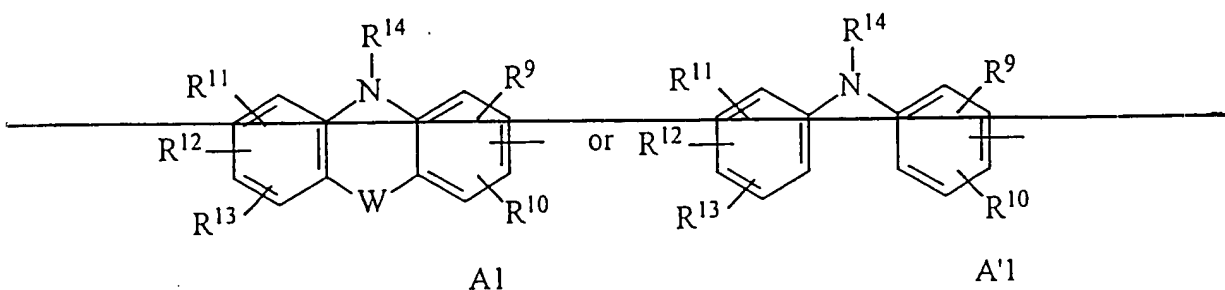
in which the alkyl, aryl or heterocycloalkyl radicals are optionally unsubstituted or substituted by at least one or more identical or different substituents chosen from: member selected from the group consisting of alkyl,  $-OH$ , alkoxy, nitro, cyano, halogen or and  $-NR^4R^5$ ;

$R^4$  and  $R^5$  ~~represent are,~~ independently, a hydrogen atom or an alkyl radical, or  $R^4$  and  $R^5$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

$R_a^2$  ~~represents a~~ is selected from the group consisting of hydrogen atom, an alkyl, aryl or and aralkyl radical, the aryl group being optionally unsubstituted or substituted by at least one or more identical or different radicals chosen from: member selected from the group consisting of  $-OR^6$ ,  $-NR^7R^8$ , halogen, cyano, nitro or and alkyl,

~~in which  $R^6$ ,  $R^7$  and  $R^8$  represent,~~ are independently, a hydrogen atom, an alkyl, aryl, aralkyl, alkylcarbonyl, arylcarbonyl or and aralkylcarbonyl radical;

$A_a$ —represents

~~either an A1 or A'1 radical~~

in which  $R^9, R^{10}, R^{11}, R^{12}, R^{13}$  represent, independently, a hydrogen atom, a halogen, the OH group, an alkyl, alkoxy, cyano, nitro or  $NR^{15}R^{16}$  radical,

~~R<sup>15</sup> and R<sup>16</sup> represent, independently, a hydrogen atom, an alkyl radical or a COR<sup>17</sup> group, or R<sup>15</sup> and R<sup>16</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,~~

~~R<sup>17</sup> represents a hydrogen atom, an alkyl, alkoxy or NR<sup>18</sup>R<sup>19</sup> radical,~~

~~R<sup>18</sup> and R<sup>19</sup> represent, independently, a hydrogen atom or an alkyl radical, or R<sup>18</sup> and R<sup>19</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;~~

$R^{14}$  represents a hydrogen atom, an alkyl radical or a  $-COR^{20}$  group,

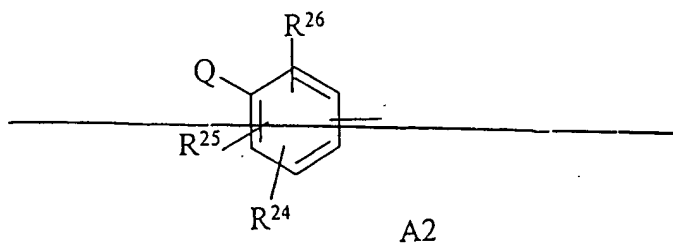
$R^{20}$  represents a hydrogen atom, an alkyl, alkoxy, aryl, aralkyl, heterocycloalkyl or  $-NR^{21}R^{22}$  radical,

in which the alkyl, aryl or heterocycloalkyl radicals are optionally substituted by one or more identical or different substituents chosen from: alkyl, OH, alkoxy, nitro, cyano, halogen or  $-NR^4R^5$ ;

$R^{21}$  and  $R^{22}$  represent, independently, a hydrogen atom or an alkyl radical, or  $R^{21}$  and  $R^{22}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

W represents a bond, O, or S or also an  $-NR^{23}$  radical, in which,  $R^{23}$  represents a hydrogen atom or an alkyl radical;

or an A2 radical





in which

$R^{24}$ ,  $R^{25}$  and  $R^{26}$  represent, independently, a hydrogen, a halogen, the OH or  $SR^{27}$  group, an alkyl, alkenyl, alkoxy radical or an  $NR^{28}R^{29}$  radical,

$R^{27}$  represents a hydrogen atom or an alkyl radical,

$R^{28}$  and  $R^{29}$  represent, independently, a hydrogen atom, an alkyl radical or a  $COR^{30}$  group, or  $R^{28}$  and  $R^{29}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

$R^{30}$  represents a hydrogen atom, an alkyl, alkoxy or  $NR^{31}R^{32}$  radical,

$R^{31}$  and  $R^{32}$  represent, independently, a hydrogen atom or an alkyl radical, or  $R^{31}$  and  $R^{32}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

Q represents  $OR^{33}$ ,  $SR^{33}$ ,  $NR^{34}R^{35}$  or an aryl radical substituted by one or more identical or different substituents chosen from: halogen, the OH group, an alkyl, alkoxy, cyano, nitro or  $NR^{15}R^{16}$  radical,

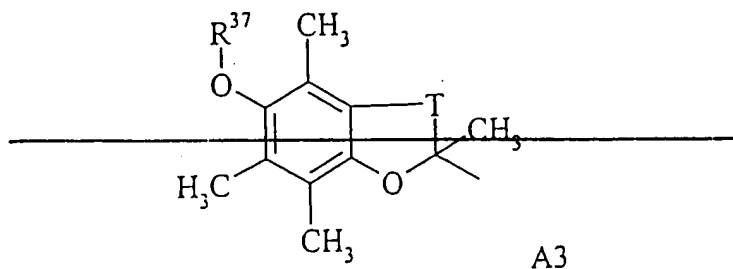
$R^{33}$  represents a hydrogen atom, an alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl or aralkylcarbonyl radical,

in which the alkyl, aryl or heterocycloalkyl radicals are optionally substituted by one or more identical or different substituents chosen from: alkyl, OH, alkoxy, nitro, cyano, halogen or  $\text{NR}^4\text{R}^5$ ;

$\text{R}^{34}$  and  $\text{R}^{35}$  represent, independently, a hydrogen atom, an alkyl radical or a  $\text{CO-R}^{36}$  radical, or together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

$\text{R}^{36}$  representing an alkyl radical;

or an A3 radical

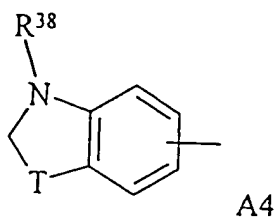


in which  $\text{R}^{37}$  represents a hydrogen atom, an alkyl, arylalkyl, heterocycloalkylcarbonyl, alkylcarbonyl, arylcarbonyl or aralkylcarbonyl radical,

in which the alkyl, aryl or heterocycloalkyl radicals are optionally substituted by one or more identical or different substituents chosen from: alkyl, OH, alkoxy, nitro, cyano, halogen or  $\text{NR}^4\text{R}^5$ ;

~~T represents a  $(CH_2)_m$  radical with  $m = 1$  or  $2$ ;~~

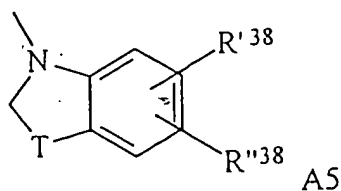
or a) an A4 radical A is



~~in which wherein  $R^{38}$  represents a~~ is selected from the group consisting of hydrogen atom, an alkyl,  $-(CH_2)_q-NR^{39}R^{40}$  or and an aralkyl radical, the aryl group being optionally is unsubstituted or substituted by at least one or more identical or different substituents chosen from: member selected from the group consisting of -OH, alkyl, halogen, nitro, alkoxy or and  $-NR^{39}R^{40}$ ,

~~q being is an integer comprised between 2 and 6;~~

or an A5 radical b) A is



~~in which wherein~~  $R^{38}$  and  $R^{38}$  ~~represent~~ are independently selected from the group consisting of a hydrogen atom, nitro,  $-NR^{39}R^{40}$ , an alkyl or and arylalkyl radical, the aryl group being optionally is unsubstituted or substituted by at least one or more identical or different substituents chosen from: member selected from the group consisting of  $-OH$ , the alkyl, halogen, nitro, alkoxy or and  $-NR^{39}R^{40}$  radicals,

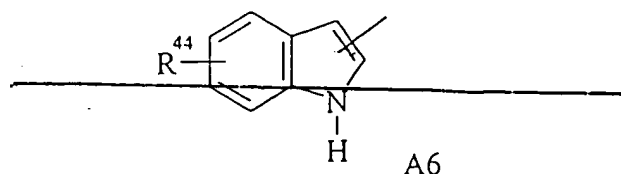
$R^{39}$ ,  $R^{40}$ ,  $R^{39}$  and  $R^{40}$  ~~represent,~~ are independently; selected from the group consisting of a hydrogen atom, an alkyl radical or a and  $-COR^{41}$  group, or  $R^{39}$  and  $R^{40}$  or  $R^{39}$  and  $R^{40}$  together with the nitrogen atom form an optionally substituted heterocycle,

$R^{41}$  ~~represents a~~ is selected from the group consisting of hydrogen atom, an alkyl, alkoxy or and  $-NR^{42}R^{43}$  radical,

$R^{42}$  and  $R^{43}$  ~~represent,~~ are independently; selected from the group consisting of a hydrogen atom or an alkyl radical, or  $R^{42}$  and  $R^{43}$  together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

~~T representing a~~ is  $-(CH_2)_m-$  radical with  $m = 1$  or  $2$ ,

~~or finally an A6 radical~~



in which  $R^{44}$  represents a hydrogen atom, the OH group or an alkyl or alkoxy radical;

$X_a$  represents is selected from the group consisting of  $-(CH_2)_n-$ ,  $-(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-$ ,  $(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-D-CO-$ ,  $-CO-N(R^{45})-D-CO-$ ,  $-CO-D-CO-$ ,  $-CH=CH-(CH_2)_n-CO-$ ,  $-N(R^{45})-(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-C(R^{46}R^{47})-CO-$ ,  $-O-(CH_2)_n-CO-$ ,  $-N(R^{45})-CO-NH-C(R^{46}R^{47})-CO-$ ,  $-CO-N(R^{45})-C(R^{46}R^{47})-CO-$ ,  $-S-(CH_2)_n-CO-$  ~~or~~ and  $-Z-CO-$ ;

D represents a is phenylene radical ~~optionally unsubstituted or substituted by at least one or more identical or different radicals chosen from member selected from the group consisting of~~ alkyl, alkoxy, -OH, nitro, halogen, cyano or and carboxyl optionally esterified by an alkyl radical;

Z represents is a heterocycle,

$R^{45}$  represents a is hydrogen atom or an alkyl radical;

$R^{46}$  and  $R^{47}$  represent, are independently, selected from the group consisting of a hydrogen atom, an alkyl, aryl ~~or~~ and aralkyl radical, the alkyl and aryl groups ~~of which are optionally~~

~~unsubstituted or substituted by at least one or more identical or different substituents chosen from: the member of the group consisting of~~ -OH, -SH, halogen, nitro, alkyl, alkoxy, alkylthio, aralkoxy, aryl-alkylthio, -NR<sup>48</sup>R<sup>49</sup> and carboxyl ~~group optionally esterified by an alkyl radical;~~

R<sup>48</sup> and R<sup>49</sup> ~~represent, are~~ independently, selected from the group consisting of a hydrogen atom, ~~an alkyl radical or a~~ and -COR<sup>50</sup> ~~group~~, or R<sup>48</sup> and R<sup>49</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

R<sup>50</sup> ~~represents a~~ is selected from the group consisting of hydrogen atom, an alkyl, alkoxy ~~or~~ and -NR<sup>51</sup>R<sup>52</sup> ~~radical~~,

R<sup>51</sup> and R<sup>52</sup> ~~represent, are~~ independently, selected from the group consisting of a hydrogen atom ~~or an alkyl radical~~, or R<sup>51</sup> and R<sup>52</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

n ~~being is~~ an integer ~~comprised~~ between 0 and 6;

Y<sub>a</sub> ~~represents~~ is selected from the group consisting of -(CH<sub>2</sub>)<sub>p</sub>-, -C(R<sup>53</sup>R<sup>54</sup>)-  
(CH<sub>2</sub>)<sub>p</sub>-, and -C(R<sup>53</sup>R<sup>54</sup>)-CO-;

R<sup>53</sup> and R<sup>54</sup> ~~represent, are~~ independently, selected from the group consisting of a hydrogen atom, ~~an alkyl radical, an~~ and aralkyl ~~radical~~, the aryl group ~~of which is~~ unsubstituted or

substituted by at least one or more identical or different substituents chosen from: the member selected from the group consisting of -OH group, halogen, nitro, alkyl, alkoxy and -NR<sup>55</sup>R<sup>56</sup>,

R<sup>55</sup> and R<sup>56</sup> ~~represent,~~ are independently, selected from the group consisting of a hydrogen atom, an alkyl radical or a and -COR<sup>57</sup> group, or R<sup>55</sup> and R<sup>56</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle,

R<sup>57</sup> ~~represents a~~ is selected from the group consisting of hydrogen atom, an alkyl, alkoxy or and -NR<sup>58</sup>R<sup>59</sup> radical,

R<sup>58</sup> and R<sup>59</sup> ~~represent,~~ are independently, selected from the group consisting of a hydrogen atom or an alkyl radical, or R<sup>58</sup> and R<sup>59</sup> together with the nitrogen atom to which they are attached form an optionally substituted heterocycle;

p ~~being~~ is an integer ~~comprised~~ between 0 and 6;

Het<sub>a</sub> ~~represents~~ is a heterocycle,

~~as well as~~ and pharmaceutically acceptable addition salts thereof with ~~mineral and organic acids or with mineral and organic bases of said compounds of general formula (I),~~

~~for the preparation of medicaments for the treatment of pathologies where calpains and/or reactive oxygen species are involved.~~

**Claims 13-15 (cancelled)**

**Claim 16 (currently amended)** ~~Use of compounds of formula (I<sub>a</sub>) according to one of claims 12 to 15, characterized in that~~ The method of claim 12 wherein Het represents is a monocyclic radical containing 1 to 2 heteroatoms chosen from O and N.

**Claim 17 (currently amended)** ~~Use of compounds of formula (I<sub>a</sub>) according to one of claims 12 to 16, characterized in that~~ The method of claim 12 wherein Het represents is selected from the group consisting of tetrahydrofuran, dioxolane pyrrolidine, and 1,3-oxazolidine, and R<sup>1</sup> represents the is selected from the group consisting of hydrogen atom, the -OR<sup>3</sup> or and oxo radical.

**Claim 18 (currently amended)** ~~Use of compounds of formula (I<sub>a</sub>) according to one of claims 12 to 17, characterized in that~~ The method of claim 12 wherein X represents the is selected from the group consisting of -(CH<sub>2</sub>)<sub>n</sub>-, -(CH<sub>2</sub>)<sub>n</sub>-CO-, -O-(CH<sub>2</sub>)<sub>n</sub>-CO-, -CO-N(R<sup>45</sup>)-D-CO-, -N(R<sup>45</sup>)-CO-(CH<sub>2</sub>)<sub>n</sub>-CO-, -N(R<sup>45</sup>)-CO-C(R<sup>46</sup>R<sup>47</sup>)-CO-, -N(R<sup>45</sup>)-CO-NH-C(R<sup>46</sup>R<sup>47</sup>)-CO-, -N(R<sup>45</sup>)-(CH<sub>2</sub>)<sub>n</sub>-CO-, -CO-N(R<sup>45</sup>)-C(R<sup>46</sup>R<sup>47</sup>)-CO or and -Z-CO-.

**Claim 19 (currently amended)** ~~Use of compounds of formula (I<sub>a</sub>) according to claim 18, characterized in that~~ The method of claim 12 wherein R<sup>45</sup> and R<sup>47</sup> represent the are hydrogen



atom, R<sup>46</sup> ~~represents the~~ is hydrogen atom, an alkyl or and phenyl radical, D ~~represents the~~ is phenylene radical and Z ~~represents the~~ is thiazole radical.

**Claim 20** (currently amended) ~~Use of compounds of formula (I<sub>a</sub>) according to one of claims 12 to 19, characterized in that~~ The method of claim 12 wherein R<sup>2</sup> ~~represents a~~ is hydrogen atom or an aralkyl radical, and preferably benzyl.

**Claims 21-24** (cancelled)